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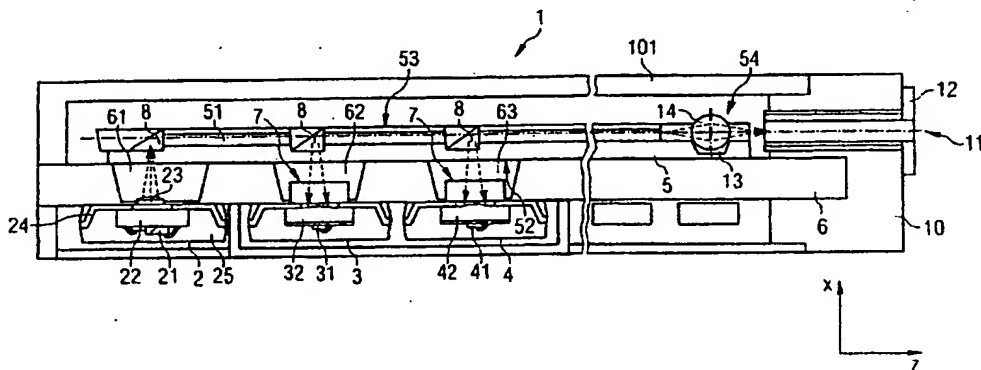
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(54) Title: OPTICAL TRANSMITTER AND/OR RECEIVER ASSEMBLY COMPRISING A PLANAR OPTICAL CIRCUIT

(54) Bezeichnung: OPTISCHE SENDE- UND/ODER EMPFANGSANORDNUNG MIT EINEM PLANAREN OPTISCHEN SCHALTKEIS



WO 2004/051335 A1 (57) Abstract: The invention relates to an optical transmitter and/or receiver assembly comprising at least one transmitter component (2) and/or at least one receiver component (3, 4), in addition to a planar optical circuit (5) with at least one integrated waveguide (51). According to the invention, light from the transmitter element (1) is coupled into a waveguide (51) of the planar optical circuit (5) and/or light from the waveguide (51) of the planar optical circuit (5) is uncoupled and guided onto the receiver component (3, 4). The assembly is provided with a lens (14, 15) for optically coupling the waveguide(s) (51) of the planar optical circuit (5) to a fibre-optic that can be fixed to the transmitter and/or receiver assembly (1), said lens (14, 15) being positioned on the planar optical circuit (5).

(57) Zusammenfassung: Die Erfindung betrifft eine optische Send- und/oder Empfangsanordnung mit mindestens einem Sendebau- bauelement (2) und/oder mindestens einem Empfangsbau- bauelement (3, 4) sowie einem planaren optischen Schaltkreis (5) mit min- destens einem integrierten Wellenleiter (51), wobei Licht des Sendebau- bauelements (1) in einen Wellenleiter (51) des planaren optischen Schaltkreises (5) eingekoppelt und/oder Licht aus dem Wellenleiter (51) des planaren optischen Schaltkreises (5) ausgekoppelt und auf das Empfangsbau- bauelement (3, 4) geleitet wird. Erfindungsgemäss ist eine Linse (14, 15) zur optischen Kopplung des mindestens einen Wellenleiters (51) des planaren optischen Schaltkreises (5) mit einer an der Send- und/oder Empfangsanordnung (1) befe- stigten Lichtleitfaser vorgesehen, wobei die Linse (14, 15) an dem planaren optischen Schaltkreis (5) angeordnet ist.

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For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette